CLAIMS

1.   A server device which outputs a result of computation processing to an output device, comprising:

a communication unit configured to receive a connection request from an input device;

an output device manager configured to store an identifier of the output device; and

an connection controller

configured to acquire output capability information of the output device, the output capability information indicating which kind of output the output device can do,

configured to acquire input capability information of the input device, the input capability information indicating which kind of input the input device can do,

configured to generate secret information which can be input to the input device and can be output by the output device, on the basis of the input capability information and the output capability information,

configured to transmit the secret information to the output device, and

configured to generate a result of computation processing based on input information received from the input device for transmitting to the output device indicated by the identifier stored in the output device manager in a case of receiving the secret information from the input device.

2.   The server device according to claim 1, wherein
the output device is a display apparatus,
the input device is a mouse, and
the connection controller generates operation information of the mouse as the secret information.

3.   The server device according to claim 2, wherein the operation information includes operation of a button equipped with the mouse and moving-operation of the mouse.

4.   The server device according to claim 3, wherein the connection controller selects the button operation and the mouse moving-operation among a plurality of button operations and a plurality of mouse moving-operations.

5.   The server device according to claim 1, wherein
      the output device is a display apparatus,
      the input device is an optical mouse, and
      the connection controller generates image information which can be read by the optical mouse, as the secret information.

6.   The server device according to claim 5, wherein
      the connection controller generates image information which changes with time, as the secret information.

7.   The server device according to claim 1, wherein
      the output device is a display apparatus,
      the input device is a keyboard, and
      the connection controller generates a character string which can be input by the keyboard, as the secret information.

8.   The server device according to claim 1, wherein
      the output device is a speaker,
      the input device is a microphone, and
      the connection controller generates voice information which can be input from the microphone, as the secret information.

9.   The server device according to claim 1, wherein
      the output device is a display apparatus,
      the input device is a camera, and
      the connection controller generates image information which can be taken by the camera, as the secret information.

10.   The server device according to claim 1, wherein
       there are a plurality of output devices, and
       the connection controller generates different secret
information pieces respectively for the output devices .

11.   The server device according to claim 1, wherein
       the output device manager stores a first user identifier so
as to associate with the identifier of the output device,
       the communication unit receives an second user identifier,
and
       the connection controller acquires the output capability
information of the output device in a case that the first user
identifier coincides with the second user identifier.

12.   A server device which generates a result of computation
processing based on input information from an input device,
comprising:
       a communication unit configured to receive a connection
request from an output device;
       an input device manager configured to store an identifier
of the input device ; and
       an connection controller
configured to acquire input capability information of the input
device, the input capability information indicating which kind of
input the input device can do,
configured to acquire output capability information of the output
device, the output capability information indicating which kind
of output the output device can do,
configured to generate secret information which can be input to
the input device and can be output by the output device, on the
basis of the input capability information and the output
capability information,
configured to transmit the secret information to the output
device, and
configured to output a result of computation processing based
on input information received from the input device indicated by

the identifier stored in the input device manager for transmitting to the output device in a case of receiving the secret information from the input device.

13. The server device according to claim 12, wherein
   the input device is a mouse,
   the output device is a display apparatus, and
   the connection controller generates operation information of the mouse as the secret information.

14. The server device according to claim 12, wherein
   the input device is an optical mouse
   the output device is a display apparatus, and
   the connection controller generates image information which can be read by the optical mouse, as the secret information.

15. The server device according to claim 14, wherein
   the connection controller generates image information which changes with time, as the secret information.

16. The server device according to claim 12, wherein
   the input device is a keyboard
   the output device is a display apparatus, and
   the connection controller generates a character string which can be input by the keyboard, as the secret information.

17. The server device according to claim 12, wherein
   the input device is a microphone
   the output device is a speaker, and
   the connection controller generates voice information which can be input from the microphone, as the secret information.

18. The server device according to claim 12, wherein
   the input device is a camera

the output device is a display apparatus, and

the connection controller generates image information which can be taken by the camera, as the secret information.

19. The server device according to claim 12, wherein

the input device manager stores a first user identifier so as to associate with the identifier of the input device,

the communication unit receives an second user identifier, and

the connection controller acquires the input capability information of the input device in a case that the first user identifier coincides with the second user identifier.

20. A program executed in a server device which receives input information from an input device via a network, and outputs a result of computation processing based on the input information to an output device on the network, comprising:

a program module for receiving a connection request from the input device;

a program module for acquiring output capability information of the output device, the output capability information indicating which kind of output the output device can do;

a program module for acquiring input capability information of the input device, the input capability information indicating which kind of input the input device can do;

a program module for generating secret information which can be input to the input device and output by the output device, on the basis of the output capability information and the input capability information;

a program module for transmitting the secret information to the output device; and

a program module for generating a result of computation processing based on input information received from the input device for transmitting to the output device in a case of receiving the secret information from the input device.